

Calendar

Tuesday, April 26

3:30 DIRECTOR'S COFFEE BREAK -

2nd Flr X-Over

4:00 Accelerator Physics and Technology Seminar - 1 West

Speaker: A. Lounine, KEK

Title: S-Matrix Formalism Approach to RF Design

Wednesday, April 27

THERE WILL BE NO Fermilab ILC R&D Meeting THIS WEEK

2:00 p.m. Proton Driver General Meeting - 1 West

Speaker: W. Winter, Institute for Advanced Study

Title: Neutrino Oscillations

Speaker: W. Chou, Fermilab

Title: H-Transport and Injection

3:30 p.m. DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over

4:00 p.m. Fermilab Colloquium - 1 West

Speaker: D. DeVorkin, Smithsonian Institution National Air and Space Museum

Title: Presenting Cosmology and its History at The National Air and Space Museum

Weather



Chance Rain **53°/36°**

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secon Level 3](#)

Fermilab's Philippe Canal Fostering ROOT Development

Fermilab processes immense amounts of information every day, from the common email message to experimental data on the most exotic particles.

How does the Computing Division do it? How will the additional data from the LHC be analyzed once it is fully operational? One way



Philippe Canal

is through a software package developed in the early 1990's at CERN called ROOT. ROOT is a pseudo acronym; the double O's referring to the Object Oriented analysis that is the heart of the software. The ROOT means that the system is at the 'root' of high energy physics software. Fermilab adopted the open-source software in 1998 to help with data analysis at CDF and DZero. The central ROOT force at Fermilab is CD's Philippe Canal, who joined the lab in 1995.

In preparation for the activation of the LHC a number of work packages have been officially established within the ROOT network. Canal has been voluntarily working on the IO and Dictionary and Interpreter packages since 1998. The I/O assists in physically storing and restoring the data from experiment like DZero and CDF. The Dictionary and Interpreter assists researchers in analyzing and assessing their data objects. Since the project is so large, a delegation of responsibility was required, and Canal is now officially in charge of

Director's Corner

Good Morning!

The Division of Particle Physics (DPF) participates in one general meeting of the American Physical Society every year. This year it occurred on April 16-19 in



Mike Witherell

Tampa. The range of contributions from the Fermilab research program covered almost every corner of research at the frontiers of particle physics.

Two Fermilab theorists, Chris Quigg and Rocky Kolb, gave plenary talks intended for physicists from all specialties.

Seventeen physicists associated with Fermilab gave invited talks at the sessions organized by the DPF. Nine of these physicists were members of the CDF and DZero collaborations talking about results from the collider program. The other invited talks covered neutrinos, astrophysics, accelerator physics, and the history of particle physics. Also, Pier Oddone gave the Panofsky Prize lecture on the evolution of the asymmetric B factory. Finally, 156 physicists delivered contributed papers on research done at Fermilab experiments.

You can count on even greater impact from Fermilab research at the APS meeting next year. As the integrated luminosity increases at the collider experiments, and the analyses become more mature, the CDF and DZero

Wilson Hall Cafe

Tuesday, April 27

Tomato Bisque

Pesto Marinated Chicken Breast \$4.75

Burgundy Beef Tips \$4.25

Baked Fish Creole over Rice \$3.75

Grilled Chicken Caesar Wrap \$4.75

Supreme \$2.75

Rio Grande Taco Salads \$4.75

The Wilson Hall Cafe now accepts Visa, Master Card, Discover and American Express at Cash Register #1.

[Wilson Hall Cafe Menu](#)

[Chez Leon](#) is now open. Call x4512 to make your reservation.

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the IO and Dictionary and Interpreter packages.

"It is a great collaboration to create between Fermilab, CERN, and others around the world," said Canal. "We have the ability to help so many physicists get so much work done from so many countries."

- Eric Bland

CD's Richard Adamo Retires After 26 Years at Fermilab

Richard Adamo, a member of the Computing Division's in house computer repair group, retires today after 26 years at Fermilab. He will retire

at the Computer Professional V level.



Richard Adamo

The Chicago native came to Fermilab after attending Triton College. He served in the US Air Force from 1965-1969, and then worked as a field engineer for different companies. His favorite part about working at Fermilab was the variety. "There was always something new, all the time," said Adamo. "I was constantly moving in the computer arena." Adamo will spend his retirement visiting Air Force buddies that he was stationed with in Japan. He also plans to spend time working on his house, where he has lived for over 30 years.

- Eric Bland

In the News

physicists will produce yet more interesting results on such topics as the properties of the top quark and the B_s meson. And our knowledge of neutrino physics will take a big step in the next year when MiniBooNE makes public the results of their search for a sterile neutrino.

Accelerator Update

April 22 - April 25

- During this 72 hour period Operations established two store that combined with an existing store provided the experiments with approximately 62 hours and 35 minutes of luminosity
- C2 wet engine failure, store saved by quick action
- Booster kicker gets replaced
- Accumulator power supply trip loses stack

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

Announcements

Administrative Professionals Day

Fermilab will celebrate the contributions of its administrative professionals on Wednesday, April 27, in Ramsey Auditorium. Hunter Lott, Business Coach and Speaker, will present "One + One = Three." A Continental breakfast will be served at 9:30 a.m. and the program will start at 10:00 a.m. All administrative and clerical employees are invited to attend.

Subscribe to Science Grid This Week

Science Grid This Week, an enewsletter from the U.S. science grid community, will launch this Thursday, April 28. To subscribe, contact [Katie Yurkewicz](#).

From *ScienceNews*, April 23, 2005

Extreme Matter: Mother of all material flows into view

by Peter Weiss

When matter was new in the universe, it was an exotic gas whose components later congealed into the more-ordinary matter made of atoms. At least, that was the story. Now, physicists trying to re-create that gas in an accelerator say that the universe's original stuff appears to have been a liquid.

Like the gas that had been expected, the ur-liquid the physicists made is ultrahot and ultradense—up to 150,000 times as hot as the sun's core and 100 times as dense as ordinary atomic nuclei.

[read more](#)

Unix Users Meeting

The next Unix Users Meeting will be on Wednesday, April 27 in Curia II from 1:00 p.m. to 3:00 p.m.

Agenda:

- Linux Update
- SL generic release
- Security news

DASTOW Scheduled for June 23

This year, DASTOW will take place on June 23. More information about the day's activities will be coming soon in *Fermilab Today*.

Summer Leagues

Co-Ed Softball League

The co-ed softball league will begin play on May 18. There will be a captains meeting on April 27 at noon in the cafeteria. Players of all levels welcome. Contact Dave Hockin, the league representative at hockin@fnal.gov for more information or to find a team.

Co-Ed Summer Volleyball League

The Recreation Office is looking for a league representative for the coed summer volleyball league. If you are interested contact Jean at X2548 or jeanm@fnal.gov

[Upcoming Activities](#)